



# CINT2000 Result

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**Dell**  
Precision Workstation 360 (3.2 GHz Pentium 4 Extreme Edition)

SPECint2000 = **1503**  
SPECint\_base2000 = **1464**

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Nov-2003 | Hardware Avail: Nov-2003 | Software Avail: Apr-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	110	1267	111	1267	
175.vpr	1400	120	1167	120	1166	
176.gcc	1100	58.9	1868	58.9	1868	
181.mcf	1800	139	1296	138	1309	
186.crafty	1000	79.8	1252	79.9	1252	
197.parser	1800	134	1343	134	1344	
252.eon	1300	91.8	1417	79.0	1645	
253.perlbmk	1800	124	1455	117	1544	
254.gap	1100	63.1	1745	63.1	1745	
255.vortex	1900	84.4	2251	84.4	2251	
256.bzip2	1500	119	1261	114	1319	
300.twolf	3000	190	1579	181	1656	

### Hardware

CPU: Intel Pentium 4 (800 MHz system bus)  
 CPU MHz: 3200  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 12K(I) micro-ops + 8KB(D) on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: 2048KB(I+D) on chip  
 Other Cache: N/A  
 Memory: 4 x 512MB ECC DDR400 SDRAM CL3  
 Disk Subsystem: 1 x 80GB ATA/100 7200 RPM  
 Other Hardware:

### Software

Operating System: Windows XP Professional SP1  
 Compiler: Intel C++ Compiler 7.1 (20030402Z)  
 Microsoft Visual Studio .NET (7.0.9466)  
 MicroQuill SmartHeap Library 6.01  
 File System: NTFS  
 System State: Default

## Notes/Tuning Information

### PORTABILITY FLAGS

176.gcc: -Dalloca=\_alloca /F10000000  
 186.crafy: -DNT\_i386  
 253.perlbmk: -DSPEC\_CPU2000\_NTOS -DPERLDLL /MT  
 254.gap: -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_MALLOC\_PROTO

### FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=yes  
 FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

### BASE TUNING

C: -QxW -Qipo -O3 +FDO  
 C++: -QxW -Qipo -GX -GR

### PEAK TUNING

164.gzip: -QxW -Qipo -Oa -O3 +FDO  
 175.vpr: -QxW -Qipo -O3 +FDO  
 176.gcc: -QxW -Qipo -O3 +FDO  
 181.mcf: -QxW -Qipo -O3 +FDO shlw32M.lib  
 186.crafty: -QxW -Qipo -O3 +FDO  
 197.parser: -QxW -Qipo -O3 +FDO  
 252.eon: -QxW -Qipo -O3 +FDO  
 253.perlbmk: -QxW -Qipo -O3 +FDO shlw32M.lib



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SPECint2000 = 1503

SPECint\_base2000 = 1464

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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=yes
255.vortex    basepeak=yes
256.bzip2:    -Qipo -Oa -Qunroll11 +FDO
300.twolf:    -Qipo -QxW -O3 -Oa      shlW32M.lib
EXTRA LIBRARIES
shlW32M.lib:  MicroQuill SmartHeap Library 6.01
              www.microquill.com
NOTES:
Hyper-Threading Technology not enabled in the BIOS.
```